

Product datasheet for MR228961

Npm1 (NM_001252260) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npm1 (NM_001252260) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Npm1
Synonyms:	B23; NO38; Npm
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR228961 representing NM_001252260 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGACTCGATGGATATGGACATGAGTCCTTAGGCCTCAGAACTACCTTTTCGTGGATAATGATG
AAAATGAGCACCAGTTGTCATTAAGAACGGTCAGTTTAGGAGCAGGGGCAAAGATGAGTTACACATCGT
AGAGGCAGAAGCAATGAAGTATGAAGGCAGTCCAATTAAGTAACACTGGCAACTTTGAAAATGTCTGTA
CAACCAACAGTTTCCCTAGGGGGCTTTGAAATTACACCACCTGTGGTCTTACGGTTGAAGTGTGGTTCAG
GGCCTGTGCACATTAGTGGACAGCATCTAGTAGCTGTAGAGGAAGATGCAGAGTCTGAAGATGAAGATGA
GGAGGACGTAAAACCTTAGGCATGTCTGGAAAGCGATCTGCTCCTGGAGGTGGTAAACAAGGTTCCACAG
AAAAAAGTAAAACCTTATGAAGATGATGAGGACGATGATGAGGACGATGAGGATGATGAGGATGATGATG
ATGATGATTTTATGAAGAGGAAACTGAAGAAAAGTCCCAGTGAAGAAATCTGTACGAGATACCCACAGC
CAAAAATGCACAAAAATCAAACAAAAATGGAAAAGACTTAAACCATCAACACCGAGATCAAAGGGTCAA
GAGTCCTTCAAAAACAGGAAAAGACTCCTAAAACACAAAAGGACCTAGTTCTGTAGAAGACATTAAGG
CAAAAATGCAAGCAAGTATAGAAAAGGGGTTCTTCCAAAAGTGAAGCCAAGTTTATTAATTATGT
GAAGAATTGTTCCGGATGACTGACCAGGAGGCTATCAAGATCTCTGGCAGTGGAGGAAATCTCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228961 representing NM_001252260
 Red=Cloning site Green=Tags(s)

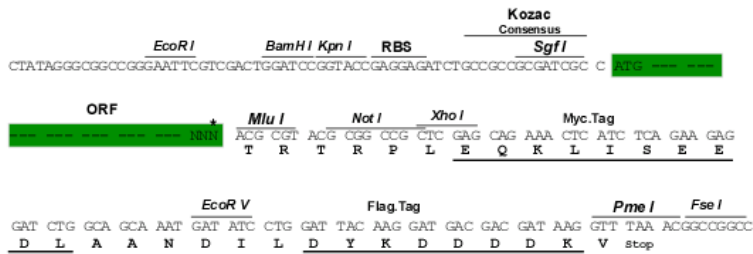
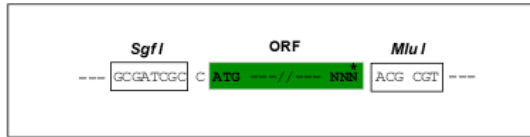
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MEDSMDMDMSPLRPQNYLFVDNDENEHQLSLRTVSLGAGAKDELHIVEAEAMNYEGSPIKVTLATLKMSV
QPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAESDEDEEDVKLLGMSGKRSAAGGKVPQ
KKVKLDEDEDEDEDEDEDEDEDDDDDFDEEETEELKVPVKSVRDTPAKNAQKSNQNGKDLKPSTPRSKGQ
ESFKKQEKTPKTPKGPSSVEDIKAKMQASIEKGGSLPKVEAKFINVVKNCFRMTDQEAIQDLWQRKSL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

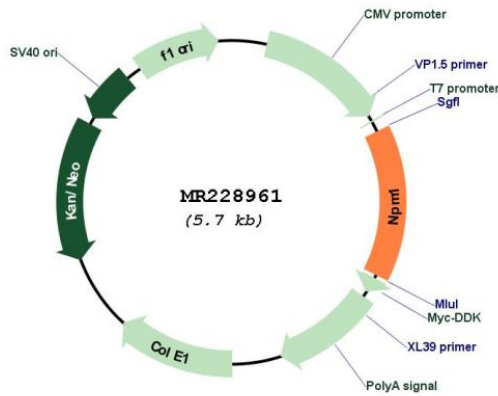
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001252260
ORF Size: 837 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001252260.1 , NP_001239189.1
RefSeq Size:	1401 bp
RefSeq ORF:	840 bp
Locus ID:	18148
Cytogenetics:	11 A4
MW:	31.5 kDa
Gene Summary:	Involved in diverse cellular processes such as ribosome biogenesis, centrosome duplication, protein chaperoning, histone assembly, cell proliferation, and regulation of tumor suppressors p53/TP53 and ARF. Binds ribosome presumably to drive ribosome nuclear export. Associated with nucleolar ribonucleoprotein structures and bind single-stranded nucleic acids. Acts as a chaperonin for the core histones H3, H2B and H4. Stimulates APEX1 endonuclease activity on apurinic/aprimidinic (AP) double-stranded DNA but inhibits APEX1 endonuclease activity on AP single-stranded RNA. May exert a control of APEX1 endonuclease activity within nucleoli devoted to repair AP on rDNA and the removal of oxidized rRNA molecules. In concert with BRCA2, regulates centrosome duplication. Regulates centriole duplication: phosphorylation by PLK2 is able to trigger centriole replication. Negatively regulates the activation of EIF2AK2/PKR and suppresses apoptosis through inhibition of EIF2AK2/PKR autophosphorylation. Antagonizes the inhibitory effect of ATF5 on cell proliferation and relieves ATF5-induced G2/M blockade. In complex with MYC enhances the transcription of MYC target genes.[UniProtKB/Swiss-Prot Function]